

BUMP INSPECTION APPARATUS AND METHOD

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ABSTRACT OF THE DISCLOSURE

10 A bump inspection apparatus for inspecting shapes of  
a plurality of bumps each having a planar top portion, on  
an inspection object, comprising an illumination optical  
system for illuminating the top portions with a vertical  
parallel pencil of light through a telecentric optical  
system, an observation optical system using a telecentric  
optical system having an optical axis thereof in  
15 conformity with that of the illumination optical system,  
an observation portion for observing the images of the  
top portions through the observation optical system in a  
predetermined range of the inspection object, and a  
processing portion for analyzing the shapes of the bumps  
20 on the basis of the images of the top portions by the  
observation portion, wherein the processing portion  
includes analyzing means for analyzing the areas of the  
planar top portions for the individual bumps and judging  
means for judging whether or not the rears of the top  
25 portions are within a predetermined range. A bump  
inspection method using this apparatus is described, too.